

Parameter Overview

January 30, 2020

Introduction

This file contains the parameters we tuned for each specific algorithm. All parameters, which we changed from the default values, are listed.

Method	Parameters	Values
<i>RGBDOdometry</i>	MaxDepth	15
	MinDepth	0.3
	MaxDepthDiff	0.05
	MaxPointsPart	0.05
<i>DVO</i>	coarsest_level	5
	finest_level	1
	max_iterations	300
	influence_function	2
	influence_function_param	30
	use_weighting	true
	scale_estimator_param	1
	precision	0.00005
<i>Fovis</i>	fast_threshold	15
	max_pyramid_level	4
	fast_threshold_adaptive_gain	0.005
	feature_window_size	10
<i>ICPOdometry</i>	MaxDepth	15
	MinDepth	0.3
	MaxDepthDiff	0.25
	MaxPointsPart	0.03
<i>RgbdICPOdometry</i>	MaxDepth	5
	MinDepth	0.3
	MaxDepthDiff	0.25
	MaxPointsPart	0.23
<i>CCNY</i>	reg/ICPProbModel/min_correspondences	12
	reg/ICPProbModel/n_nearest_neighbors	20
	reg/ICPProbModel/max_assoc_dist_mah	13
	reg/ICPProbModel/max_corresp_dist_eucl	0.04
<i>DVOSLAM</i>	tracking/coarsest_level	5
	tracking/finest_level	1
	tracking/max_iterations	300
	tracking/scale_estimator_param	1
	tracking/influence_function_param	30
	tracking/mu	0
	tracking/precision	0.0005
	slam/max_rotational_distance	0.3
	slam/min_entropy_ratio	0.3
	slam/constraint_search_radius	0.6
	slam/constraint_min_entropy_ratio_coarse	0.70
	slam/constraint_min_entropy_ratio_fine	0.8
<i>RTABMap</i>	-	-
<i>ORB-SLAM2</i>	Camera.fx	927.7444458007812
	Camera.fy	928.2129516601562
	Camera.cx	655.3325805664062
	Camera.cy	361.226318359375
	Camera.width	1280
	Camera.height	720
	Camera.bf	13.640315374
	ORBextractor.scaleFactor	1.25
	ORBextractor.iniThFAST	20
	ORBextractor.minThFAST	6
	ORBextractor.nLevels	8
	ORBextractor.nFeatures	2500
<i>RGBDSLAMv2</i>	config/nn_distance_ratio	0.5
	config/ransac_iterations	500